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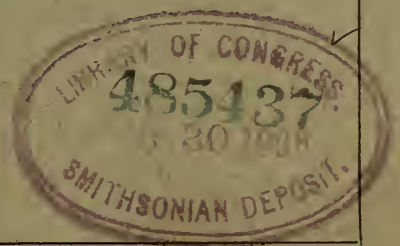
# The Civil and Mechanical Engineers' Society.

(FOUNDED 1859.)

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## RULES AND LIST OF MEMBERS.

MARCH, 1908.



TAI  
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1908

# The Civil and Mechanical Engineers' Society

(FOUNDED 1859),

25, VICTORIA STREET, WESTMINSTER, S.W.

(Tel. 244, VICTORIA.)

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## Council :

*President*—W. N. TWELVETREES, M.I.M.E., M.R.S.I., A.M.I.E.E.

*Vice-Presidents.*

E. AULT, M.I.M.E., F.S.I.

W. W. HIND-SMITH, F.R.G.S., F.R.C.I.

*Members of Council.*

A. W. ACKERMANN.

H. ADAMS, M.I.C.E., M.I.M.E., F.R.S.I.,  
F.S.I.

E. H. G. BREWSTER, A.M.I.C.E.,  
M.I.M.E.

W. B. ESSON, M.I.C.E., M.I.E.E.

C. T. A. HANSSEN, A.M.I.C.E.

A. W. MANTON, B.SC., M.I.C.E., M.I.M.E.

A. MARSHALL-ARTER, A.M.I.C.E.

J. S. OWENS, M.D., B.A., A.M.I.C.E.

H. SHAW, A.M.I.C.E., M.R.S.I.

F. R. SIMMS.

H. V. F. VALPY, M.I.C.E.

C. T. WALROND, A.M.I.C.E., M.R.S.I.,  
A.M.I.E.E.

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## Officers :

*Hon. Treasurer*—C. T. WALROND, A.M.I.C.E., 25, Victoria Street, S.W.

*Hon. Solicitor*—R. H. WILLCOCKS, LL.B., 4, College Hill, E.C.

*Auditor*—R. L. MATTHEWS, 43, Essex Road, Acton, W.

*Hon. Secretary*—A. S. E. ACKERMANN, B.SC. (ENGINEERING) LOND., A.C.G.I.,  
A.M.I.C.E., M.R.S.I., 25, Victoria Street, S.W. (Tel. 244, Victoria.)



# CIVIL AND MECHANICAL ENGINEERS' SOCIETY.

Its Presidents, Treasurers, Secretaries, and Places of Meeting, from the commencement of the Society in May, 1859, to the Present time.

|         | PRESIDENTS.  | TREASURERS.                    | SECRETARIES.                          | PLACES OF MEETING.  |
|---------|--|--------------------------------|---------------------------------------|---|
| 1859—60 | G. W. MACGEORGE, M.I.C.E.                                      | E. H. HILLIAR.                 | E. H. HILLIAR.                        | 26, Arbour Square, Stepney, E.                              |
| 1860—1  | G. C. FRASER.  | G. J. CROSBIE DAWSON, M.I.C.E. | W. RUTT.                              | Poultry Chapel School Room, and<br>8, Moorgate Street, E.C. |
| 1861—62 | F. CAMPIN.   | "                              | F. H. ROBERTS.                        | Freemasons' Tavern, Great Queen<br>Street, W.C.             |
| 1862—63 | "  | "                              | "                                     | "   |
| 1863—64 | W. H. MAW, M.I.C.E., M.I.M.E., F.R.A.S.,<br>F.R.G.S., F.R.M.S. | "                              | "                                     | Drummond Chambers, Adelphi,<br>W.C.                         |
| 1864—65 | G. EEDS EACHUS, M.I.C.E.                                       | "                              | "                                     | "   |
| 1865—66 | "  | "                              | "                                     | Whittington Club, Arundel St.,<br>Strand, W.C.              |
| 1866—67 | B. HAUGHTON,   | "                              | "                                     | "   |
| 1867—68 | "  | "                              | "                                     | "   |
| 1868—69 | W. F. BLACK.   | "                              | "                                     | "   |
| 1869—70 | J. B. WALTON, M.I.C.E.   | A. C. PAIN, M.I.C.E.           | G. W. USILL, A.M.I.C.E.               | 4, Westminster Chambers, S.W.                               |
| 1870—71 | A. C. PAIN, M.I.C.E.   | C. H. REW, A.R.I.B.A.          | C. H. REW, A.R.I.B.A.                 | (=7, Victoria Street, in 1904).                             |
| 1871—72 | C. W. WHITAKER, M.I.C.E.                                       | W. F. BUTLER, M.I.C.E.         | H. E. HUNT, A.M.I.C.E.                | 7, Westminster Chambers, S.W.                               |
| 1872—73 | C. H. REW, A.R.I.B.A.  | W. C. STREET, A.R.I.B.A.       | O. ORDISH and E.<br>SPEED, A.R.I.B.A. | (=13, Victoria Street, in 1904).                            |
| 1873—74 | G. W. WILLCOCKS, M.I.C.E.                                      | "                              | E. SPEED, A.R.I.B.A.                  | "   |
| 1874—75 | W. F. BUTLER, M.I.C.E.   | "                              | W. W. THOMAS.                         | "   |
| 1875—76 | R. M. BANCROFT.  | "                              | "                                     | "   |
| 1876—77 | H. V. F. VALPY, M.I.C.E.                                       | H. E. HILL, A.M.I.C.E.         | E. SPEED, A.R.I.B.A.                  | "   |
| 1877—78 | C. H. DRIVER, F.R.I.B.A.                                       | A. PAYNE, F.R.I.B.A.           | "                                     | "   |
| 1878—79 | W. C. STREET, A.R.I.B.A.                                       | W. F. BUTLER, M.I.C.E.         | F. WHEELER, F.R.I.B.A.                | "   |
| 1879—80 | H. E. HILL, M.I.C.E.   | W. C. STREET, A.R.I.B.A.       | G. A. PRYCE-COXSON,<br>A.R.I.B.A.     | "   |
| 1880—81 | A. T. WALMSLEY, M.I.C.E.                                       | "                              | "                                     | "   |
| 1881—82 |  |                                |                                       | "   |

|         |  |   |  |   |
|---------|--|---|--|---|
| 1882—83 | R. H. TWIGG, M.I.C.E.  | W. C. STREET, A.R.I.B.A.                              | G. A. PRYCE-CUXSON,<br>A.R.I.B.A.  | 7, Westminster Chambers, S.W.<br>(=13, Victoria Street, in 1904.) |
| 1883—84 | "  | "   | "  | "   |
| 1884—85 | THOMAS COLE, A.M.I.C.E.                                      | "   | "  | "   |
| 1885—86 | H. M. WHITLEY, M.I.C.E.                                      | "   | "  | "   |
| 1886—87 | E. H. G. BREWSTER, A.M.I.C.E., M.I.M.E.                      | "   | "  | "   |
| 1887—88 | R. E. MIDDLETON, M.I.C.E., M.I.M.E.,<br>F.R.S.I., F.S.I.     | "   | "  | Westminster Town Hall.  |
| 1888—89 | "  | "   | E. L. W. HASKETT-<br>SMITH, A.K.C., A.M.I.C.E.   | Westminster Palace Hotel,<br>Victoria Street, S.W.                |
| 1889—90 | H. ADAMS, M.I.C.E., M.I.M.E., F.R.S.I.                       | "   | "  | "   |
| 1890—91 | R. NELSON BOYD.  | "   | "  | "   |
| 1891—92 | A. A. MYALL, A.M.I.C.E.                                      | "   | W. LEE BEARDMORE,<br>A.M.I.C.E.  | "   |
| 1892—93 | R. BOLTON, A.M.I.C.E.  | H. COWARD.  | E. H. G. BREWSTER,<br>A.M.I.C.E., M.I.M.E.   | "   |
| 1893—94 | "  | "   | "  | 12, Delahay St., Westminster, S.W.                                |
| 1894—95 | C. T. WALROND, A.M.I.C.E., M.R.S.I.,<br>A.M.I.E.E.           | A. A. MYALL, A.M.I.C.E.                               | "  | "   |
| 1895—96 | S. à COURT, A.M.I.C.E.                                       | "   | "  | The Ship Restaurant, Charing<br>Cross, S.W.                       |
| 1896—97 | "  | E. H. G. BREWSTER,<br>A.M.I.C.E., M.I.M.E.            | PERCY FIELD.   | Westminster Palace Hotel, Vic-<br>toria Street, S.W.              |
| 1897—98 | H. COWARD.   | "   | "  | Hotel Victoria, Northumberland<br>Avenue, S.W.                    |
| 1898—99 | B. B. DADLEY, A.M.I.C.E.                                     | C. T. WALROND,<br>A.M.I.C.E., M.R.S.I.,<br>A.M.I.E.E. | A. S. E. ACKERMANN,<br>B.SC. (ENGINEERING)<br>LOND., A.C.G.I.,<br>A.M.I.C.E., M.R.S.I. | "   |
| 1899—00 | "  | "   | "  | "   |
| 1900—01 | Prof. R. H. SMITH, Wh.Sc., A.M.I.C.E.,<br>M.I.M.E., M.I.E.E. | "   | "  | "   |
| 1901—02 | "  | "   | "  | St. Ermin's Hotel, Caxton Street,<br>Westminster, S.W.            |
| 1902—03 | C. T. A. HANSSEN, A.M.I.C.E.                                 | "   | "  | Caxton Hall (late Westminster<br>Town Hall), Westminster, S.W.    |
| 1903—04 | "  | "   | "  | "   |
| 1904—05 | "  | "   | "  | "   |
| 1905—06 | W. B. ESSON, M.I.C.E., M.I.E.E.                              | "   | "  | "   |
| 1906—07 | "  | "   | "  | "   |
| 1907—08 | W. N. TWELVETREES, M.I.M.E.,<br>M.R.S.I., A.M.I.E.E.         | "   | "  | "   |

# Civil and Mechanical Engineers' Society.

*This Society was established in the year 1859 for the discussion of Scientific Subjects, especially those connected with Engineering.*

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## RULES.

As amended at the Annual General Meeting, held on Thursday,  
2nd May, 1907.

1.—That this Society be called the CIVIL AND MECHANICAL ENGINEERS' SOCIETY.

2.—That this Society consist of Members, Associates, Honorary Members, and Honorary Corresponding Members.

That Members shall be men engaged in the engineering profession or kindred pursuits.

That Associates shall be men connected with engineering, but not practising as engineers.

That Honorary Members shall be men eminent in the engineering profession or as scientific men, and that Corresponding Members shall be persons engaged in similar pursuits to Members and permanently resident abroad.

3.—That any Candidate for admission as a Member or as an Associate of the Society shall be proposed by a full Member—from personal knowledge—and be seconded by two others (who shall be either Members or Associates) on a printed form signed by the proposer and seconders and by the Candidate, stating the Candidate's name, address and profession; that these particulars be announced at a meeting of the Society, and that the Candidate be balloted for by the full Members at the following meeting, one black ball in five to exclude.

4.—That the Election of Honorary Members and Honorary Corresponding Members be left to the discretion of the Council.

5.—That each Member, Associate, and Honorary Member shall have the privilege of introducing two friends to each Ordinary Meeting of the Society, whose names and addresses shall be entered in a book provided for that purpose, in which also every Member, Associate, and Honorary Member attending any meeting shall sign his name.



6.—That any Member, Associate, or Honorary Member may have the loan of any book, drawings, or papers belonging to the Society upon signing his name in a book provided for that purpose, such Member, Associate, or Honorary Member being responsible for the property so borrowed, which shall be immediately returned when demanded by the Secretary.

7.—That the entrance fee for Members shall be half-a-guinea, and that their annual subscription may be compounded for by the payment (in one sum) of ten guineas, such payment to confer the privileges of Membership for life.

That Associates shall pay no entrance fee.

8.—That the annual subscription of Members and Associates be one guinea, payable in advance on the first day of January in each year.

That the subscription of any Member or Associate joining the Society after the first day of November in any year shall commence from the first day of January following. That the following Members may claim a reduction of their subscription to half a guinea per annum during their residence outside a radius of thirty miles from London provided they have no office within such radius :—

(a) Members who on joining the Society are permanently resident outside the said radius.

(b) Members resident within the said radius on their permanently removing beyond it.

The reduction shall take effect from the first of January following the date of the claim.

9.—On or about April 2nd, in each year, a notice shall be sent to each Member who owes any monies to the Society showing the amount of the same and calling his attention to Rule 10.

10.—On April 10th of each year, any member who has omitted to pay his subscription for the then current year shall thereby incur a fine of five shillings, and if he does not pay all monies owing by him to the Society within four months of the posting of the notice named in Rule 9, the Council shall have power to remove his name from the list of members of the Society, but such or any other removal of his name shall not affect his legal liability to the Society, and he shall not be entitled to vote unless he is out of the debt of the Society.

11.—That the Council of the Society shall consist of a President, two Vice-Presidents, a Treasurer, a Secretary, and not less than four or more than eight other Members, to be elected by ballot of the full Members at a General Meeting, to be held in May each year. That the year of office shall commence at the first Meeting of the following Session ; that each Past-President, provided that he remains a Member of the Society, shall be an *ex officio* Member of the Council for the six years following his year of office, and that

after such six years he shall be eligible for election to the Council in the ordinary way. That Associates shall not be eligible as Members of the Council.

12.—That the affairs of the Society be under the control of the Council.

13.—That ordinary Council Meetings shall be held once in each month during the Session, and that Extraordinary Council Meetings may be held at the request of the President, or at the request in writing of three of its Members. That three shall form a quorum ; and that the proceedings of the Council shall be entered in a minute book, and shall be read by the Secretary at the next meeting of the Council.

14.—That the accounts of the Society shall be audited once a year by an Accountant, to be elected by ballot at the General Meeting to be held in May.

15.—If any Member or Associate, by act of felony, misdemeanour or other offence, shall render himself unfit to be a Member or Associate of the Society, or if, in the opinion of the Council, his conduct shall be considered injurious or detrimental to the interests or welfare of the Society, or if his conduct be brought to the notice of the Council by a proposal signed by not less than six Members of the Society, then the Council shall make such inquiry as they deem adequate, and if at a Council Meeting, called for the purpose, not less than three-fourths of the Members of Council present decide that there is good or sufficient reason for the expulsion of the said Member or Associate, they shall cause his name to be removed from the list of Members or Associates of the Society ; but if the majority who so decide be less than three-fourths of the Councillors present, then the Member or Associate's name shall remain on the list of Members or Associates, and the inquiry shall not be entered on the minutes.

16.—That the Ordinary Meetings of the Society for the reading and discussion of papers on subjects connected with engineering and the kindred sciences shall be held on such days between December 1st and May 31st as the Council may appoint before the commencement of the Session, such Session to commence with the first Ordinary Meeting in December and to conclude with the General Meeting in May.

17.—That the Secretary shall commence the proceedings of each Meeting by reading the Minutes of the preceding Meeting.

18.—That the Chairman shall have the power of directing the discussion, deciding points of order, and dissolving the Meeting, if necessary, and that he shall have a casting vote when divisions are equal.

19.—That anyone desirous of reading a paper before the Society shall first submit it for the approval of the Council, and unless he shall then, by notice in writing addressed to the Secretary, reserve to himself any rights, such paper shall, when read, become the absolute property of the Society ; and all maps, plans, drawings, diagrams, etc., illustrating the same shall remain in the custody of the Society for a period of not more than nine months ; and the Society shall have full power to print the whole or any parts of such paper, maps, plans, drawings, diagrams, etc., either in the Transactions of the Society or in some other form.

20.—That in order that the papers read may be bound they shall be written upon paper of a uniform size, that known as “ foolscap ” being adopted as the standard, one side only being used, and  $1\frac{1}{2}$  in. margin left clear.

21.—That the General Meeting of the Society shall be held in May, when the Council's report and the audited accounts for the previous year, ending 31st December, shall be presented, Officers for the ensuing Session elected, and such matters considered as may affect the interests of the Society.

22.—That a Special Meeting of the Society shall be called at any time by the Secretary at the request of the Council or at the request in writing of six Members, who shall therein state the business to be brought forward at such Meeting.

23.—That for all General or Special Meetings of the Society six full Members shall form a quorum.

24.—That visits to works or other objects of engineering interest shall be made at the discretion of the Council, and that notice of these and all other Special Meetings of the Society shall be sent to Members, Associates, and Honorary Members.

25.—That no alteration shall be made in these Rules except by a vote of the full Members at the General Meeting to be held in May, or at a Special Meeting called for the purpose.



# CIVIL AND MECHANICAL ENGINEERS' SOCIETY.

(FOUNDED 1859.)

*It is requested that every CHANGE OF ADDRESS, and particulars of membership of other Societies, may be COMMUNICATED WITHOUT DELAY to the Hon. Secretary.*

L denotes Life Members.

## HONORARY MEMBERS.

| NAME.   | ADDRESS.  |
|---|---|
| Ayrton, Professor William Edward, F.R.S.                        | Central Technical College, South Kensington, S.W. |
| Clarke, William, M.I.C.E.                                       | 39, Old Queen St., Westminster, S.W.              |
| Galbraith, William Robert, M.I.C.E.                             | 91, Finchley Road, N.W.                           |
| Henrici, Professor Olaus, PH.D., LL.D., F.R.S.,                 | Central Technical College, South Kensington, S.W. |
| Preece, Sir Wm. Henry, K.C.B., F.R.S.,<br>Past Pres. Inst. C.E. | Gothic Lodge, Wimbledon, S.W.                     |

## MEMBERS.

| DATE OF<br>ELECTION. | NAME.  | ADDRESS.   |
|----------------------|--|--|
| Feb. 7, 1907         | Abbott, Alfred Ernest,<br>A.M.I.M.E., M.R.S.I.   | The Square, Wolverton, Bucks.  |
| Feb. 14, 1895        | Ackermann, Adolphus Wm.  | Fairlight View, Hawkhurst, Kent.                                     |
| Dec. 19, 1898        | Ackermann, Alfred Seabold<br>Eli, B.SC. (ENGINEERING),<br>A.C.G.I., A.M.I.C.E., M.R.S.I. | 25, Victoria Street, Westminster,<br>S.W. (Tel. 244, Victoria.)      |
| L Dec. 19, 1883      | Adams, Prof. Henry, M.I.C.E.<br>M.I.M.E., F.S.I., F.R.S.I.                               | 60, Queen Victoria Street, E.C.                                      |
| Dec. 2, 1897         | Adamson, William   | Castle Company's Chambers,<br>Cape Town. (P.O. Box 426.)             |
| Dec. 7, 1905         | Addinell, John Gouthwaite  | 24, King's Avenue, Muswell Hill, N.                                  |
| Nov. 1, 1906         | Allbless, Edalji Dossabhoy   | 4, Patel Street, Fort, Bombay,<br>India.                             |
| Jan. 7, 1904         | Arter, Arthur Marshall,<br>A.M.I.C.E.  | 60, Upper Mall, Hammersmith, W.                                      |
| Jan. 5, 1905         | Atherton, Percy William  |  |
| Nov. 1, 1900         | Atkinson, Alexander  | Lahore, Punjab, India.   |
| Feb. 7, 1901         | Ault, Edwin, M.I.M.E., F.S.I.  | Boundary Road, Burmah, India.  |
| Dec. 8, 1904         | Bailey, George, F.R.C.I.   | Chief Mechanical Engineer, Broo-<br>massie Gold Fields, West Africa. |
| Oct. 3, 1907         | Balsara, Phirozshar F.   | Sirdar Building, Appollo Street,<br>Fort, Bombay, India.             |
| Jan. 2, 1908         | Baker, Lucius Aveling  | 78, West Hill, Sydenham.   |
| Dec. 4, 1902         | Bell, James Richard, M.I.C.E.<br>M.AMER.SS. C. & M.E.                                    | 25, Victoria Street, S.W.<br>(Tel. 244, Victoria.)                   |
| L 1873               | Bell, William  | Dean's Yard, Westminster, S.W.                                       |
| Mar. 7, 1901         | Bennett, William   | Town Hall, Rangoon.  |
| Dec. 8, 1904         | Boden, Edward Goulden,<br>M.M.C.E.   | Victoria Chambers, Romford, E.                                       |
| L Feb., 1872         | Brewster, Edwin Henry<br>George, A.M.I.C.E.,<br>M.I.M.E.                                 | 12, Dartmouth Street, Queen<br>Anne's Gate, S.W.                     |



| DATE OF<br>ELECTION. | NAME.  | ADDRESS.   |
|----------------------|--|--|
| April 4, 1907        | Brierley, Harry Heaton,<br>A.M.I.M.E.                              | 8, Oaklands Road, East Sheen, S.W.   |
|                      | L Broughton, F.  | Hyderabad, Deccan, India.  |
| Mar. 3, 1904         | Budge, James Albert  | Council House, Birmingham.   |
| Feb. 16, 1899        | Burn, Joseph William   | Springholme, Stockton-on-Tees.   |
| Mar. 6, 1902         | Burne, Harold  | San Carlos Copper Co., Linares,<br>N.L., Spain.  |
| May 2, 1901          | Burton, Richard  | c/o The National Bank of Egypt,<br>Cairo.  |
| Oct. 3, 1907         | Chandabhoy, Bomanji<br>Munckershaw, L.M.E.                         | Mount Road, Mazagone, Bombay,<br>India.  |
| Oct. 3, 1907         | Chandabhoy, Munckershaw<br>N., M.S.E. (India), M.S.A.              | Sirdar Building, Appollo Street.<br>Fort, Bombay, India.   |
| Feb. 1, 1906         | Chilvers, George William,<br>F.R.MET.SOC., M.R.S.I., F.I.S.E.      | 28, Victoria Street, S.W.  |
| Mar. 2, 1905         | Collingwood, Cuthbert,<br>A.M.I.C.E.                               | Royal Survey Dept., Bang-kok,<br>Siam.   |
| Nov. 6, 1907         | Conn, William John   | Engineer-in-Charge of Railway<br>Bridge Construction, British<br>North Borneo, Beaufort <i>via</i><br>Jesselton. |
| L Ap. 9, 1863        | Cooper, Frederick East-<br>ment, M.I.C.E.                          | 11, Victoria Street, S.W.  |
| Nov. 7, 1901         | Cotton, Alfred   | 54, North 11th Street, Newark,<br>N.J., U.S.A.   |
| Dec. 3, 1903         | Cundy, Junr., John George,<br>S.I.E.E.                             | Swansea Improvements Tram-<br>ways Co., Parkwern Road,<br>Swansea.   |
|                      | L 1881 Cuxson, George Austin<br>Pryce, A.R.I.B.A., F.S.I.          | 5, Duke Street, Adelphi, W.C.  |
| Dec. 8, 1904         | Dalgarno-Robinson, Henry,<br>A.C.G.I., A.M.I.C.E.                  | Marshgate House, Richmond,<br>Surrey.  |
| Nov. 7, 1901         | Davies, Francis Edward   | Director, The Mirban Tin Mines,<br>Ltd., 148, Finsbury Pavement,<br>E.C.   |
|                      | L 1860 Dawson, George James<br>Crosbie, M.I.C.E.                   | North Staffs. Railway, Stoke-on-<br>Trent.   |
| May 2, 1901          | Dewhirst, Charles Reeve  | c/o The A.C. Electrical Co., Sara-<br>cens Buildings, Snow Hill, E.C.  |
|                      | L 1862 Eachus, George Eedes,<br>M.I.C.E.                           | "Florrisant," London Road,<br>Enfield.   |
| May 5, 1899          | Esson, William Beedie,<br>M.I.C.E., M.I.E.E.                       | 1, Victoria Street, S.W. (Tel. 5386<br>Westminster).   |
| Jan. 7, 1904         | Farrell, Francis Henry   | Moynalty, Kells, Co. Meath.  |
| Jan. 8, 1903         | Fillingham, John Thomas<br>Dungate                                 | 73, Grange Park Road, Thornton<br>Heath, Surrey.   |
| Dec. 8, 1904         | Finnie, William, A.M.I.M.E.,<br>M.I.S.I. (Scot.), M.S.E., M.I.E.S. | c/o MM. Howarth Erskine, Ltd.,<br>Singapore, Straits Settlements.  |
| Mar. 2, 1905         | FitzGerald, Maurice Edward<br>William                              | Warmley, near Bristol.   |
|                      | 1884 Gibbon, Harry   | 2, Victoria Villas, Exoning Road,<br>Newmarket.  |
| Apr. 5, 1906         | Goldsmith, Henry Edward  | Royal Engineers Office, Hong<br>Kong.  |
| Mar. 1, 1900         | Gray, Andrew Robertson   | Council House, Birmingham.   |
| Nov. 1, 1906         | Hainworth, Charles S.,<br>A.C.G.I.                                 | c/o S. Pearson & Sons, Ltd., Salina<br>Cruz, O.A.X., Mexico.   |
| Feb. 2, 1899         | Hallet, Herbert Ford   | 2, Rotherwood, Madeira Road,<br>Streatham, S.W.  |
| Nov. 7, 1901         | Halliwell, James   | 118, Market Street, Edenfield, near<br>Bury.   |



| DATE OF<br>ELECTION. | NAME.  | ADDRESS.   |
|----------------------|--|--|
| Dec. 16, 1897        | Hanssen, C. T. Alfred,<br>A.M.I.C.E.   | 319, Lordship Lane, East Dulwich,<br>S.E.  |
| Nov. 6, 1907         | Harda, Hormasji K.   | 44, Tamarind Lane, Fort, Bombay,<br>India.                                       |
| Jan. 5, 1905         | Hargreaves, John Emanuel   | Town Hall, Farnborough, Hants.   |
| May 4, 1905          | Harrold, Alexander Walter,<br>A.C.G.I., A.M.I.E.E.                               | 148, Hither Green Lane, Lewisham,<br>S.E.  |
| Nov. 6, 1902         | Hawkins, Hervey Carlton  | 4, Devonshire Road, South Lam-<br>beth, S.E.                                     |
| L Dec. 21, 1887      | Heaton, John   |  |
| L 1874               | Herbert, Nicholas  |  |
| Feb. 6, 1903         | Hewett, Bertram Henry<br>Majendie, A.C.G.I.,<br>A.M.I.C.E.                       | 9, Garden Street, Park Street,<br>Montclair, New Jersey, U.S.A.                  |
| L 1874               | Hill, Henry Ellis, M.I.C.E.  | 9, Victoria Street, S.W.   |
| Mar. 7, 1901         | Hill, Walter Wellesley   | Admiralty Harbour Works,<br>Peterhead, N.B.                                      |
| Dec. 3, 1903         | Hind-Smith, W. Wilson,<br>F.R.G.S., F.R.C.I.                                     | Grosvenor, The Leas, Westcliffe-<br>on-Sea.                                      |
| Feb. 1, 1900         | Hirst, Joseph Henry  | Town Hall, Hull.   |
| April 5, 1906        | Hoskins, Nandy William,<br>M.R.S.I.  | Malobar, New Eltham, Kent.   |
| Feb. 6, 1908         | Howard, Arthur Cecil   | Craig-ard, Alexandra Avenue,<br>Mansfield, Notts.                                |
| Dec. 21, 1887        | Hudson, John Christopher   | District Engineer, Palmore, <i>via</i><br>Janumpett, Deccan, India.              |
| June 7, 1900         | Hummel, Frank Harvey,<br>B.SC., A.M.I.C.E., A.C.G.I.                             | The University, Edgbaston. Bir-<br>mingham.                                      |
| May 2, 1901          | Hurd, Howard, M.M.C.E.,<br>M.R.S.I.  | Council Offices, Broadstairs, Kent.  |
| Dec. 5, 1901         | Jackson, William Smith,<br>A.R.S.I.  | 21, Gatefield Road, Sheffield.   |
| Nov. 6, 1907         | Kapadia, Temuras D.  | 44, Tamarind Lane, Fort, Bombay,<br>India.                                       |
| Dec. 6, 1906         | Kitchin, Eric Wilfred,<br>A.M.I.C.E.   | The Priory, Watford.   |
| Feb. 7, 1907         | Laughton, Ernest Cheyney,<br>A.C.G.I.  | 16, Old Buildings, Lincoln's Inn,<br>W.C.  |
| Dec. 8, 1904         | Lawton, Charles Henry  | Christchurch Cottage, Warmin-<br>ster, Wilts.                                    |
| April 3, 1902        | Lobb, Nicholas William   | 51, Graper Hill, Norwich.  |
| L 1872               | Love, James, F.R.A.S.,<br>F.G.S., F.Z.S.   | 33, Clanricarde Gardens, Bays-<br>water, W.                                      |
| L                    | Macfarlane, Thomas Mel-<br>bourne  | P.W.D., Hyderabad, Deccan,<br>India.   |
| Dec. 6, 1900         | Mann, Sidney George<br>Norman  | Land Registry, 34, Lincoln's Inn<br>Fields, W.C.                                 |
| Dec. 16, 1897        | Manton, Arthur Wood-<br>roffe, B.SC., M.I.C.E.,<br>M.I.M.E.                      | c/o S. Pearson & Sons, Incorp.,<br>East River Tunnels, Long Island<br>City, N.Y. |
| May 3, 1906          | Marriott-Dodington, Spencer  | Sherborne, Dorsetshire.  |
| Jan. 3, 1901         | Mawson, Matthew, A.M.I.C.E.  | 23, Bingham Road, Croydon.   |
| Nov. 1, 1900         | Maybury, Henry Percy,<br>M.M.C.E.  | The Sessions House, Maidstone.   |
| L Dec. 19, 1888      | McMahon, Patrick Jay   | U.S. Naval Station, Key West,<br>Fla., U.S.A.                                    |
| Oct. 3, 1907         | Mebta, Sorab Bowanjee  | 59, Hornby Road, Bombay, India.  |
| Nov. 6, 1902         | Middleton, Reginald<br>Empson, M.I.C.E., M.I.M.E.,<br>F.R.S.I., F.S.I., F.R.M.S. | 17, Victoria Street, Westminster,<br>S.W.  |
| Mar. 5, 1903         | Midgley, Harold Edward,<br>M.A. (Cantab.), A.M.I.C.E.,                           | Bletchington, Lower Park Road,<br>Belvedere, S.E.                                |

| DATE OF<br>ELECTION. | NAME.   | ADDRESS.  |
|----------------------|---|---|
| Dec. 5, 1907         | Mirza, Cowasjee Framjee   | Akola, Berar, India.  |
| Dec. 5, 1907         | Mitchell, Gardiner, G.I.M.E.,<br>M.A.M.S.   | 8, Albyn Terrace, Aberdeen.   |
| Jan. 4, 1906         | Moore, Frances B. G.  | 17, Mooltan Terrace, Tedworth,<br>Andover, Hants.                               |
| L 1867               | Moorsom, Lewis Henry,<br>M.I.C.E.   | 46, Shrewsbury Street, Old Traf-<br>ford, Manchester.                           |
| Dec. 7, 1899         | Morgan, Edward Francis  | Town Hall, Croydon.   |
| April 5, 1906        | Musto, A. Arnold  | Assistant Civil Engineer, Public<br>Works Dept., Indian Government              |
| Mar. 3, 1904         | Nicholson, George John<br>Lowthian  | Albany Chambers, York Street,<br>Westminster, S.W.                              |
| Dec. 7, 1889         | Orme, Thomas Joshua   | The Council House, Birmingham.  |
| Feb. 2, 1899         | Osborne, James  | 14, Kenilworth Avenue, Wimble-<br>don Park, S.W.                                |
| Oct. 5, 1905         | Owens, John Switzer, M.D.,<br>(T.C.D.), B.A., A.M.I.C.E.,<br>F.R.G.S.             | 15, Tothill Street, Westminster,<br>S.W.  |
| Oct. 3, 1907         | Pastakia, Hormusjee<br>Cowasjee   | 234, Bora Bazar Street, Fort, Bom-<br>bay, India.                               |
| Oct. 3, 1907         | Patel, Munckershaw Jivanji  | 59, Hornbv Road, Bombay, India.   |
| May 21, 1903         | Paterson, Lionel  |   |
| Nov. 2, 1905         | Paulsen, Christian Ludwig<br>Holten de, B.Sc. (Cophg.),<br>MEM.SOC. Danish Engrs. | Invererne, 52, Park Road, Rangoon.  |
| L 1875               | Payne, Alex., F.R.I.B.A.,<br>A.I.C.E.   | Norfolk House, Victoria Embank-<br>ment, W.C.                                   |
| 1877                 | Phillott, Geo. Henry, M.A.  | 13, Promenade, Cheltenham.  |
| June 7, 1900         | Pontifex, Beaumont  | c/o Crompton & Co., Ltd., Salis-<br>bury House, London Wall, E.C.               |
| Nov. 6, 1902         | Pryce-Jones, John Trevor  | Tonola, Estado de Chipas, Mexico.   |
| Dec. 16, 1897        | Purton, Frederick   | Manager, Expanded Metal Co.,<br>York Mansion, York Street,<br>Westminster, S.W. |
| Jan. 5, 1905         | Reade, James Francis,<br>A.M.I.C.E.   | 26, Belsize Square, N.W.  |
| Mar. 7, 1901         | Richardson, Frederic<br>William   | 5, Somerset Road, Handsworth<br>Wood, Birmingham.                               |
| Feb. 7, 1901         | Ridler, Walter, M.M.C.E.,<br>A.R.S.I.   | Sun Street, Tewkesbury.   |
| Feb. 7, 1901         | Rogers, Arthur Edward,<br>M.A., A.M.I.C.E.  | 11, Ennismore Gardens, South<br>Kensington.                                     |
| May 21, 1903         | Romero, Cayetano  | c/o S. Pearson & Sons, Incorp.,<br>Long Island City, New York,<br>U.S.A.        |
| May 2, 1901          | Roth, Sidney B., A.I.E.E.   | 51, Vanbrugh Park, Blackheath,<br>S.E.  |
| L 1859               | Rutt, Walter  | Engineer-in-Chief's Office, Ade-<br>laide, South Australia.                     |
| Jan. 5, 1905         | Sadler, Frederick   | Deputy Surveyor, Acton, W.  |
| Nov. 6, 1907         | Sanjana, Barjorji J.  | 44, Tamarind Lane, Fort, Bombay,<br>India.                                      |
| Nov. 6, 1907         | Sanjana, Nuserwanji J.  | 32, Hornby Road, Whiteway<br>Buildings, Bombay.                                 |
| Dec. 6, 1900         | Shaw, Herbert, M.I.C.E.<br>M.M.C.E., M.R.S.I.                                     | Council Offices, Ilford.  |
| Feb. 1, 1906         | Shepherd, George Granville,<br>M.R.S.I., Grad. M. & C. Engrs.                     | Town Hall, Ilford.  |
| Jan. 3, 1907         | Shorthouse, Benjamin,<br>A.M.I.M.E.   | 304, High Holborn, W.C.   |
| L 1866               | Siccama, Baron Harco<br>Theodorus Hora, M.I.C.E.                                  | c/o St. Stephen's Club, Westmin-<br>ster, S.W.                                  |
| Jan. 5, 1905         | Sidwell, Henry Thomas   | 2, Park Street, Hatfield, Herts.  |
| Nov. 1, 1906         | Sime, William, M.I.M.E.   | 15, Vaughan Road, Stratford, E.   |

| DATE OF<br>ELECTION. | NAME.   | ADDRESS.   |
|----------------------|---|--|
| Feb. 27, 1896        | Simms, Frederick Richard  | Welbeck Works, Kimberley Road,<br>Willesden Lane, Kilburn.                               |
| Jan. 8, 1903         | Smart, Campbell   | 27, Mirador Crescent, Swansea.   |
| April 3, 1902        | Smith, Sidney Lyon,<br>A.C.G.I.                                       | St. Paul's Vicarage, Bunhill Row,<br>E.C.  |
| Mar. 6, 1902         | Spurrell, Edward<br>Frederick   | 197, High Holborn, W.C.  |
| Mar. 2, 1905         | Staples, Henry Charles  | Survey Dept., Underhill, Ampitiya,<br>Candy, Ceylon.                                     |
| Feb. 1, 1906         | Stickwood, Sydney,<br>M.JNR.I.E.                                      | 7, Springfield Road, St. John's<br>Wood, N.W.  |
| L 1872               | Street, William Charles   | Essex Lodge, Walton-on-Naze.   |
| Nov. 2, 1905         | Sumner, John, M.R.S.I.  | P.O. Box 2384, Johannesburg,<br>S. Africa.   |
| Mar. 1, 1906         | Sutton, Gerald John   | 26 & 28, Warwick Road, Ealing,<br>W.   |
| Nov. 5, 1903         | Tewksbury, Richard<br>Jerrard   | 9, Franchise Terrace, Weymouth.  |
| Jan. 5, 1905         | Tomey, Percy  | Queen Anne's Chambers, Tothill<br>Street, Westminster, S.W.                              |
| May 21, 1903         | Turner, Samuel  |  |
| Jan. 7, 1897         | Twelvetrees, Walter Noble,<br>M.I.M.E., M.R.S.I., A.M.I.E.E.          | 91, Louisville Road, Upper Toot-<br>ing, S.W. (Tel. 1221, Battersea.)                    |
| Nov. 6, 1907         | Uren, Frederick C.  | Municipal Buildings, Aldershot.  |
| Dec. 6, 1900         | Vallance, Robert Frank,<br>F.R.I.B.A., F.S.I., M.M.C.E.               | The Ridge, Mansfield, Notts.   |
| 1871                 | Valpy, Henry Valpot<br>Francis, M.I.C.E.                              | 14, Victoria Street, S.W.  |
| Nov. 6, 1907         | Wadia, Nowrojee R.  | No. 6, Middle Colaba, Next to<br>Parsee Sanatorium, Bombay.                              |
| April 5, 1906        | Wallington-Butt, Ernest<br>Edwin                                      | City Engineer's Office,<br>Birmingham.   |
| L 1868               | Walmisley, Arthur Thos.,<br>M.I.C.E.                                  | 9, Victoria Street, Westminster,<br>S.W.   |
| 1881                 | Walrond, Charles Trou-<br>bridge, A.M.I.C.E., M.R.S.I.,<br>A.M.I.E.E. | 25, Victoria Street, S.W. (N. Tel.<br>5052 Westminster. Tel. Add.<br>Logistics, London.) |
| L 1860               | Walton, James Birdsall,<br>M.I.C.E.                                   | 12, Little College Street, S.W.  |
| Nov. 2, 1905         | Warner, Harold Metford,<br>A.C.G.I., A.M.I.M.E.                       | c/o MM. Ford-Ayrton, Low Ben-<br>tham, <i>via</i> Lancaster.                             |
| Nov. 6, 1902         | Waterworth, Thomas<br>Lawrence  | c/o Madras Railway Co., Arkonam,<br>India.   |
| Mar. 7, 1907         | White, James William,<br>M.R.S.I., F.R.MET.S.                         | Royal Engineers Office, Hong-<br>Kong.   |
| L                    | White, Robert T.  |  |
| Feb. 7, 1901         | Whitwell-Allen, George,<br>M.S.E., M.I.S.E.                           | "Vectis," 33, Ellerton Road,<br>Wandsworth, S.W.   |
| Mar. 5, 1903         | Whitley, Henry Stuart<br>Beville                                      | Divisional Engineer's Office,<br>G.W.R., North Road, Plymouth.                           |
| Nov. 2, 1899         | Wilkie, John, M.A. (Edin.)  | 17, Grosvenor Square, Ashton-<br>upon-Mersey.  |
| Nov. 2, 1905         | Wilkins, Llewellyn Hayward,<br>M.I.M.E., M.JNR.I.E.                   | "Akaroa," Gatcombe Road,<br>Tufnell Park, N.   |
| 1866                 | Willcocks, R. H., LL.B.<br>(Hon. Solicitor)                           | 4, College Hill, Cannon Street,<br>E.C.  |
| L 1866               | Willcocks, George Waller,<br>M.I.C.E.                                 | Chief Engineer, Local Government<br>Board, Whitehall, S.W.                               |
| L May 5, 1899        | Winsborrow, Edwin Jas.  | 21, Grove Avenue, Hanwell.   |
| April 5, 1906        | Woollard, Frank George  | The Homestead, Station Road,<br>Sidcup, Kent.  |
| L 1877               | Worssam, Henry John   | Wenlock Road, City Road, E.C.  |

# Civil & Mechanical Engineers' Society.

FOUNDED 1859.

SESSION 1907-1908.

*Please admit Mr.*

TO THE MEETING TO BE HELD AT THE

CAXTON HALL (LATE WESTMINSTER TOWN HALL),  
NEAR ST. JAMES'S PARK STATION, WESTMINSTER, S.W.,

On THURSDAY, April 2nd, 1908, at 8 p.m.,

WHEN A PAPER WILL BE READ ON

## **"Efficiency of Boiler Heating Surface,"**

BY

MR. C. HUMPHREY WINGFIELD, M.I.C.E., M.I.M.E., M.I.N.A.

*Signature of Member* ... *A. S. E. ACKERMANN*

20, 21, A. S. E. ACKERMANN, *Hon. Sec.*

Tea and Coffee at 7.30 p.m.



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